

**AMENDMENTS TO THE SPECIFICATION**

Please replace paragraph [0028] beginning at page 4 to page 5 with the following amended paragraph:

-- PINO1 DNA Sequence (SEQ. ID 1) and PINO1 amino acid Sequence (SEQ. ID 3):

atg ttc atc gag agc ttc cgc gtg gag agc ccg cac gtg cgg tac ggc gcg gcg gag atc  
M F I E S F R V E S P H V R Y G A A E I  
gag tcg gag tac cgg tac gac act acg gag ctg gtg cac gag agc cac gac ggc gcc tcg  
E S ~~WE~~ Y R Y D T T E L V H E S H D G A S  
cgc tgg gtc gtc cgc ccc aag tcc gtc cag tac cac ttc agg acc agc acc acc gtc ccc  
R ~~HW~~ V V R P K S V Q Y H F R T S T T V P  
aag ctc ggg gtc atg ctc gtg ggg tgg ggc ggc aac aac ggc tca acg ctg acg gct ggg  
K L G V M L V G W G G N H G S T L T A G  
gtc atc gcc agc agg gag gga atc tca tgg gcg acc aag gac aag gtg cag caa gcc aac  
V I A S R E G I S W A T K D K V Q Q A N  
tac tat ggc tca ctc acc cag gcg tcc acc atc agg gta gga agc tac aac ggg gag gag  
Y Y G S L T Q A S T I R V G S Y N G E E  
atc tac gcg cct ttc aag agc ctc ctg ccc atg gtg aac cct gat gac ctt gtg ttc ggg  
I Y A P F K S L L P M V N P D D L V F G  
ggc tgg gac att agc aac atg aac ctg gct gat gct atg acc agg gcc aag gtg ctg gac  
G W D I S N M N L A D A M T R A K V L D  
att gat ctg cag aag cag ctt agg cct tac atg gag tcc tgg tgc ctc tcc ctg gca tct  
I D L Q K Q L R P Y M E S W C L A L A S  
atg atc ccg act tca tcg ccg cta acc agg gat ccc gcg cga aca atg tca tca agg gaa  
M I P T S S P L T R D P A R T M S S R E  
cca aga agg agc aga tgg ggc aga tca tca aag gac atc agg gag ttc aag gaa aat aac  
P R R S R W G R S S K D I R E F K E N N  
aaa atg gac aag gcg gtg gtg ttg tgg act gca aac act gaa agg tac aac aat tgt ctg  
K M D K A V V L N T A N T E R Y N N C L

tgt ttg ggc tta atg acc aat gga aaa cct tct gcg tct gtg gac agg aac cag gcg gag  
C L G L M T N G K P S A S V D R S Q A E  
ata tcg cca tcg aca ttg tat tgc cat tgc ctt gct tca ttg gag ggt gtc cgt tca ata  
I S P S T L Y C H C L A S L E G V R S I  
acg gga gcc ctt aaa aaa aaa tct tgg cct gga att gac gat ctt gcc att aaa aaa aaa  
T G A L K K K S W P G I D D L A I K K K  
ctg cct gat ccg ggg gga tta att caa aaa agg ggc aaa cca aaa aaa aaa acc ggc ttg  
L P D P G G L I Q K R G K P K K K T G L  
gtt gat ttc ctc atg ggt gct gga ata aag ccc acc tca att gtc agt tac aac cac ttg  
V D F L M G A G I K P T S I V S Y N H L  
ggg aat aat gat ggc acg aac ctt tct gcg ccg caa aca ttc cga tcc aag gag atc tcc  
G N N D G T N L S A P Q T F R S K E I S  
aaa agc agc gtg gtc gat gac atg gtc tca agc aat gct atc ctc tac gag cct ggc gag  
K S S V V D D M V S S N A I L Y E P G E  
cat cct gat cat gtt gtc gtg att aag tat gtg ccg tac gtc gga gac agc aag agg gcc  
H P D H V V V I K Y V O Y V G D S K R A  
atg gat gag tac acc tca gag atc ttc atg ggg ggt aag aac acc atc gtg ctg cac aac  
M D E Y T S E I F M G G K M T I V L H N  
acc tgc gag gac tcg ctc ctt gct gca cca atc att ctt gac ctg gtg ctc ctg gcc gag  
T C E D S L L A A P I I L D L V L L A E  
ctc agc act agg att cag ctg aaa ggc gag gga gag gag aaa ttc cat tcc ttc cat cca  
L S T R I Q L K G E G E E K F H S F H P  
gtg gct acc atc ctg agc tac ctc acc aag gcg ccc ctt gtt cct cct ggc aca cca gtg  
V A T I L S Y L T K A P L V P P G T P V  
gtg aac gcc ctg gcg aag cag agg gct atg ctc gag aac atc atg agg gcc tgc gtt ggg  
V N A L A K Q R A M L E N I M R A C V G  
ctg gcc cct gag aac aac atg atc ctg gag tac aag  
L A P E N N M I L E Y K --